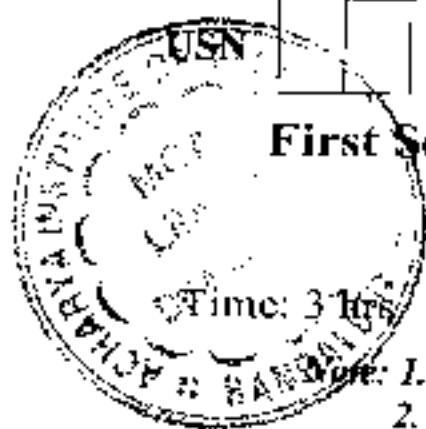


CBCS SCHEME

BETCK105F



First Semester B.E./B.Tech. Degree Examination, June/July 2025 Waste Management

Max. Marks: 100

- Note:** 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks, L: Bloom's level, C: Course outcomes.

Module – 1		M	L	C
Q.1	a. Explain the various functional elements of solid waste management system.	10	L2	CO1
	b. Define solid waste. Explain the source based classification of solid waste.	10	L2	CO1
OR				
Q.2	a. Write short notes on Environmentally Sound Solid Waste Management (ESSWM) and Environment Sound Technology (EST).	10	L2	CO1
	b. Write a short note on Indian Scenario and Global Scenario of E-waste.	10	L2	CO1
Module – 2				
Q.3	a. Describe the Rationale for analysis for waste stream assessment and steps involved in Field investigation.	10	L2	CO1
	b. What are the various factors which affect the quantity and composition of solid waste? Explain.	10	L2	CO1
OR				
Q.4	a. Explain the physical and chemical characteristics of waste generation.	10	L2	CO1
	b. Explain the various environmental effects due to inadequate and improper waste management.	10	L2	CO1
Module – 3				
Q.5	a. Explain the factors which affect the selection of transfer station.	10	L2	CO2
	b. Explain the various stages involved in sanitary landfills.	10	L2	CO2
OR				
Q.6	a. What is a Transfer Station? Explain its types based on its size.	10	L2	CO2
	b. Describe the various options of solid wastes disposal.	10	L2	CO2
Module – 4				
Q.7	a. Discuss the mechanical volume and size reduction of waste.	10	L2	CO3
	b. Describe the different components separation techniques used in solid waste management system and explain any two in detail.	10	L2	CO3

OR			
Q.8	a.	Write a note on Drying and Rewatering operations used in SWM.	10 L2 CO3
	b.	Describe the different elements of Recycling Programme.	10 L2 CO3
Module – 5			
Q.9	a.	Explain the physical and chemical treatment of hazardous waste.	10 L2 CO4
	b.	Describe the various characteristics of hazardous wastes.	10 L2 CO4
OR			
Q.10	a.	Describe the five general categories of hazardous wastes.	10 L2 CO4
	b.	Explain the concept of pollution prevention and waste minimization of hazardous waste in industries.	10 L2 CO4
